Public Service Company of Colorado

16805 Road 19 1/2, Platteville, Colorado 80651-9298

December 29, 1982
Fort St. Vrain
Unit No. 1
P-82560

Mr. John T. Collins, Regional Administrator
Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76011

Reference: Facility Operating License
No. DPR-34

Docket No. 50-267

Dear Mr. Collins:

Enclosed please find a copy of Reportable Occurrence Report No. 50-267/82-047, Final, submitted per the requirements of Technical Specification AC 7.5.2(b)1.

Also, please find enclosed one copy of the Licensee Event Report for Reportable Occurrence Report No. 50-267/82-047.

Very truly yours,

J J Borst for
Don Warembourg
Manager, Nuclear Production

DW/cls

Enclosure

cc: Director, MIPC

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FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO
16805 WELD COUNTY ROAD 19 1/2
PLATTEVILLE, COLORADO 80651-9298

REPORT NO. 50-267/82-047/03-L-0

Final

IDENTIFICATION OF OCCURRENCE:

While performing regularly scheduled surveillance tests on the plant protective system (PPS), a portion of the "A" logic, "loss of bearing water" circuitry associated with "C" helium circulator (C-2103) was found inoperable.

This constitutes operation in a degraded mode of LCO 4.4.1, Table 4.4-3, and is reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)1.

EVENT DESCRIPTION:

On December 1, 1982, with the reactor operating at less than 2% thermal power, instrument personnel performed (SR 5.4.1.3.3b-M) the circulator bearing water pressure surveillance test. This surveillance is a pulse test of the PPS circuitry associated with a loss of helium circulator bearing water pressure.

Upon performing the portion of the test associated with "C" helium circulator, the logic circuitry was found operable to trip the circulator on loss of bearing water but failed to actuate the control relay which would allow accumulator water to be admitted to the circulator bearings. The amount of water available in the accumulator is sufficient to allow circulator coast down after a trip, and therefore, prevent damage to the bearings.

The redundant "B" logic circuitry was found operable in its entirety and would have performed per design.

CAUSE DESCRIPTION:

Component failure.

The "A" logic circuitry failed due to a faulty "chip" (Z-32) in the CT-2A2 logic module of the PPS.

CORRECTIVE ACTION:

The logic module was removed and temporarily replaced with a spare while the faulty chip was replaced and the module functionally tested. The repaired module was installed, and the surveillance was successfully completed.

No further corrective action is anticipated or required.

Prepared By: Duane L. Frye
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Senior Technical Services Technician

Reviewed By: Charles Fuller
Charles Fuller
Technical Services Engineering Supervisor

Reviewed By: Ltr'd (mw3)
Edwin D. Hill
Station Manager

Approved By: OF Borst for
Don Warembourg
Manager, Nuclear Production